

CHEMIST

General Statement of Duties: Conducts chemical and biochemical analysis of substances for operational and regulatory purposes; does related work as required.

Distinguishing Features of the Class: This is technical work involving responsibility for performing the necessary laboratory tests at the water pollution control plant to ensure compliance with Federal, State, and local environmental laws and regulations.

Areas of Accountability:

1. Maintains Lab Certification for Wastewater Treatment Plant
2. Coordinates City's Industrial Pretreatment Program
 - Monitors various industries;
 - Compiles and bills monthly surcharge billing for industries.
3. Conducts and reviews tests.
 - Performs chemical and/or bacteriological tests of waste water and other substances.
 - Conducts and reviews daily tests of B.O.D., suspended solids, oil and grease, alkalinity, chlorine content, and ammonia nitrogen and P.H. for the plant and other industries.
4. Provides the Superintendent with information regarding the proper operations of the plant.
 - Provides information regarding tests conducted.
 - Provides sludge application records.
 - Provides information regarding digester operations.
5. Prepares solutions.
 - Prepares standard solutions such as alkalinity testing.
 - Prepares pH buffer solutions.
6. Prepares and keeps appropriate records.
 - Keeps records on the results of tests.
 - Prepares the necessary reports such as the Monthly State Report.
 - Maintains records of sludge volumes.
 - Updates annual lab inventory.
7. Other duties as assigned.

- Cleans laboratory hardware and keeps distilled water in sufficient supply.
- Responsible for routine maintenance and calibration of all laboratory equipment.
- Renders assistance when needed with industrial liaison.
- Keeps abreast of professional developments in the field.
- Performs other duties as required.

Required Knowledge, Skills and Abilities: Considerable knowledge of bacteriology or chemistry; ability to conduct and review chemical tests; skills in the use of laboratory hardware; general knowledge of wastewater treatment plant operations; ability to work independently; ability to maintain accurate records.

Acceptable Experience and Training: Requires a combination of experience and training equivalent to graduation from a college or university with major course work in chemistry, bacteriology or related field and 1 years experience in chemical work at a wastewater treatment plant, health laboratory, or industrial waste treatment facility.